Section 2.6: Continuity

MATH 130: Calculus I

Due: Wednesday, February 20, 2019 at 12:20pm   Name (Print): _____

After reading Section 2.6 (pages 103-112 in the text), respond to the following questions **on this handout**. Be sure to staple your pages together before turning it in. **You must answer all parts to all questions to earn full credit!!!** See the salmon homework guidelines handout for details. You are encouraged to take additional notes wherever you are keeping your class notes.

Response Section

1. We started looking at continuity in our Week 3 Lab. Here state the Continuity Checklist!

2. Draw the graph of a function that fails the first item on the checklist for $a = 2$, but fulfills the second at $a = 2$.

3. Draw the graph of a function that fulfills the first AND second items on the checklist for $a = 2$, but fails the third at $a = 2$.

4. StateTheorem 2.9 about Continuity Rules. Remember to include the hypotheses!

5. Where are transcendental functions continuous? (Look for a theorem to help you answer this!) Write your answer in a full sentence.

6. State the Intermediate Value Theorem.

Questions/Exercise Section

7. Write down at least two questions you have on the reading. OR if you have NO questions, do exercise 22 in Section 2.6 (page 113). Check out Example 2 and show all your work for a full solution. See the salmon homework guidelines handout for details.

Reflection Section

8. Write **two or three** sentences reflecting on the progress of your recent work in the course. See the salmon homework guidelines handout for details.

Time Section

9. How much time did you spend on this reading assignment? _____